## FACSIMILE COMMUNICATION • FACSIMILE COMMUNICATION • FACSIMILE COMMUNICATION

COMPANY:

11/03/94

Hydrocatalysis Power

REFNO: 69942

ATTENTION:

Stev Bollinger

DATE: November 3, 1994

**DESTINATION** 

(610) 651-4940

PAGE 1 OF +

FROM:

FAX NO:

Dr. A.Y. Craig

CE&A REPLY FAX NO: (415) 369-7921

SUBJECT:

XPS/ESCA Results (CEA #44545)

Please find attached typical results for your samples. A 2 mm  $\times$  0.8 mm analysis area was selected for this work.

Elements C. O. N. Si, Cl. S. Ni, Zn. Sn. K. Ca. Mg and Cr are detected at the surface for the Nickel Cathode Sample #A. The concentration for C is approximately 52 at%, while that for Ni is approximately 9 at%. The concentrations for Ca (approximately 0.1 at%) and Mg (approximately 0.2 at%) are considered maximum values due to the noisy spectra.

Elements C, O, N, Si, S, Ni, Zn, Sn, Mg and Cr are detected at the surface for the Nickel Cathode Sample #B. The concentration for C is approximately 41 at%, while that for Ni is approximately 13 at%.

This analysis involved approximately 8 hours of instrument time. You will be invoiced for 6 hours (\$1800.00), as quoted. If you have any questions regarding this work, please call me.

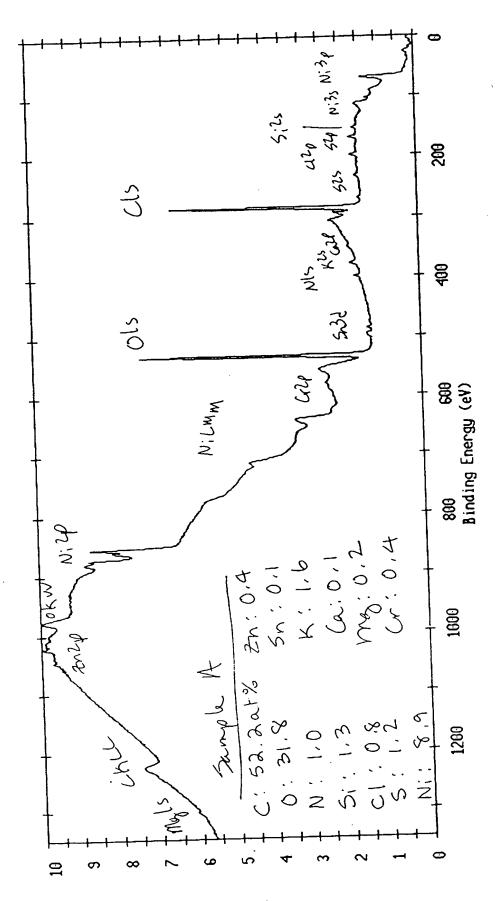
Sincerely,

Angela Y. Craig

450 ¥

إنتضر

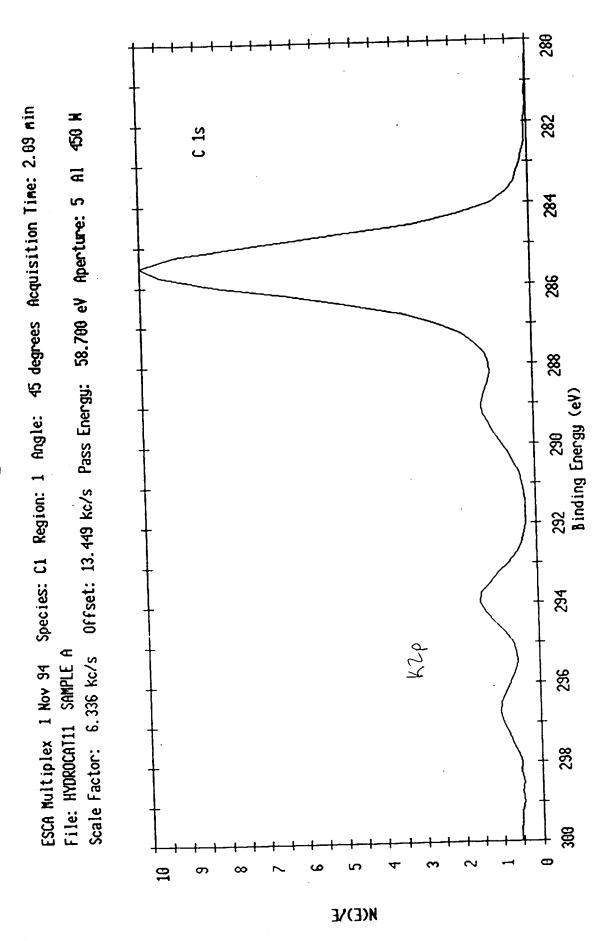
Scale Factor: 29.950 kc/s Offset: 7.175 kc/s Pass Energy: 187.850 eV Aperture: 5 Al ESCA Survey 1 Nov 94 Angle: 45 degrees Acquisition Time: 29.82 min File: HYDROCAT10 SAMPLE A



 $(\mathcal{A})$ 

**2341**5 369 7921

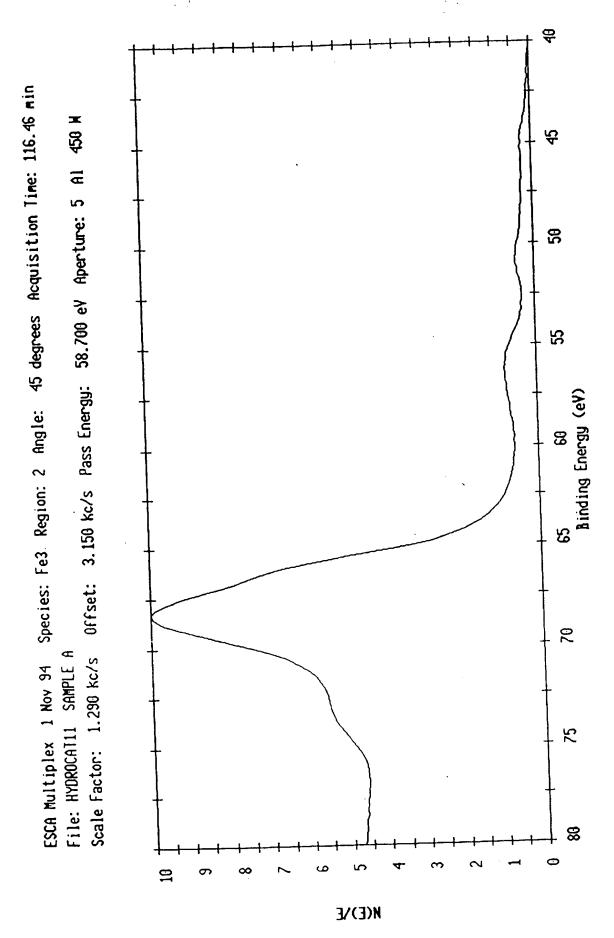
@**003**/007





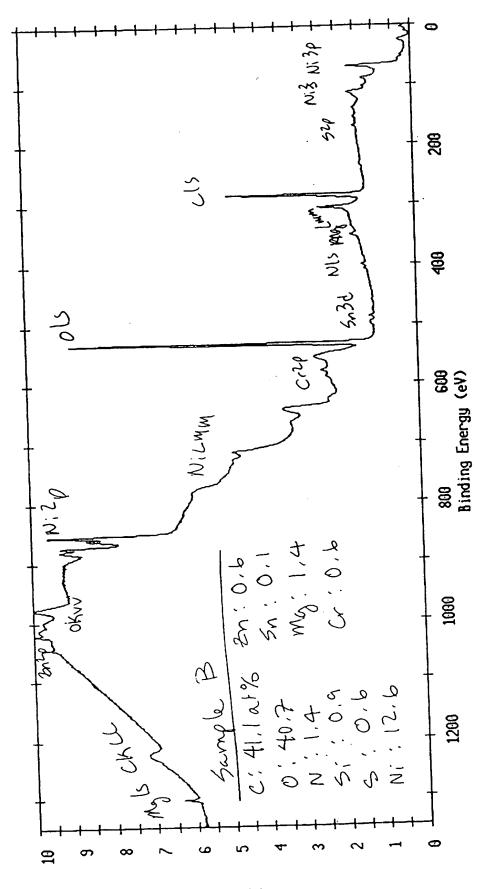
11/03/94

17:,27



ESCA Survey 1 Nov 94 Angle: 45 degrees Acquisition Time: 29.82 min

450 H Æ Offset: 6.971 kc/s Pass Energy: 187.850 eV Aperture: 5 File: HYDROCAT20 SAMPLE B Scale Factor: 30.190 kc/s



N(E)\E

**~**415 369 7921



